

(19)



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(11)

EP 0 736 599 A2

(12)

EUROPEAN PATENT APPLICATION

(43) Date of publication:
09.10.1996 Bulletin 1996/41

(51) Int. Cl.⁶: **C12N 15/12, C12N 1/21,
C07K 14/47, C07K 16/18
// (C12N1/21, C12R1:19)**

(21) Application number: 96105353.5

(22) Date of filing: 03.04.1996

(84) Designated Contracting States:
**AT BE CH DE DK ES FI FR GB GR IE IT LI LU NL
PT SE**

(30) Priority: 03.04.1995 JP 77966/95

(71) Applicant: Takeda Chemical Industries, Ltd.
Osaka-shi, Osaka 541 (JP)

(72) Inventors:
• Nakao, Kazuwa
Kyoto 610-11 (JP)
• Ogawa, Yoshihiro
Osaka 569 (JP)
• Fujisawa, Yukio
Kobe, Hyogo 658 (JP)

(74) Representative: KUHNEN, WACKER & PARTNER
Alois-Steinecker-Strasse 22
85354 Freising (DE)

(54) **Rat obese gene, its gene product and its production**

(57) A polypeptide which has an amino acid sequence comprising the amino acid sequence shown in SEQ ID NO: 1 or 2; a recombinant DNA encoding the polypeptide; a vector comprising the recombinant DNA; a host cell transformed with the recombinant DNA; a method for producing the polypeptide, which comprises the steps of culturing the host cell in a culture medium, accumulating the polypeptide in the culture and recovering the same; and an antibody which reacts to a gene product coding for rat obese cDNA.

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